

Video Cassette Player **8**

# EV-P2

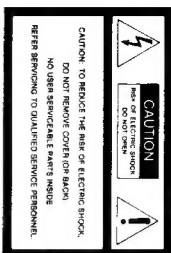
## Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.



## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**Owner's Record**  
The model number is located at the front and back of the unit. The serial number is located on the front panel of the unit. Please record the model and serial numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. EV-P2 Serial No. \_\_\_\_\_

The equipment operates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which limits the radio frequency energy from this device so that it will not cause interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Solve Your Radio and Television Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-000-54.

**Note to CATV system installer:**  
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the equipment grounding terminal block, as close to the point of cable entry as practical.

This unit uses 8mm video format cassettes. It can play back in the SP mode (approximately 1/25 cm/sec) and the LP mode (approximately 0.12 cm/sec).

## Precautions

## On safety

- This unit operates only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Do not use any power source other than the power for the purpose of safety and it will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Unplug the unit from the wall outlet if it is not going to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

## On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Keep the unit and cassette tapes away from equipment that produces magnetic fields, as for example microwave ovens or large burglar magnets.
- Do not place any heavy object on the unit.
- Do not install the unit near an AM receiver, since noise may be heard when listening to AM programs.

## On operation

- When the unit is not in use, turn the power off to conserve energy and to extend its life.
- Remove and store video cassettes after recording or playback.
- Store the cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.

## On cleaning

Clean the cabinet panel and controls with a dry, soft cloth or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene, which might damage the finish.

## On packing

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit.

If you have any questions about this unit, contact your Sony service facility.

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## Introduction

### Overview of the EV/P2

The EV/P2 is a compact and light weight video cassette player which uses Hi-Fi format cassette. With its feature of simple connection to a TV and easy operation, the EV/P2 is particularly well suited for the following applications:

- To playback a tape recorded by your Hi-Fi video recorder.
- Connecting the EV/P2 to a TV, you can easily playback and enjoy the tape which you have recorded.
- For inter-office communication
  - Such materials as company news or training materials recorded at the headquarters can be sent to branch offices and those who received them can easily playback the tape with the EV/P2.

#### Note

PCM recording is not possible with this unit. The PCM sound recorded or after-recorded with a recorder cannot be played back with this unit.

### How the Manual is Organized

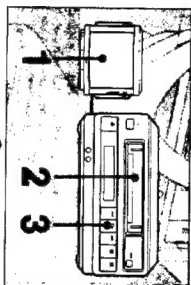
This manual is arranged to help you find the information you need for the operation of the EV/P2. Take a moment to check the content of this manual in the Table of Contents. Read the "Antenna Connection" and "Setting the RF Unit" sections first so that you can properly connect the EV/P2 to your TV before you begin.

### How the Manual Works

- Controls and setting on the EV/P2 are shown in capital letters.

#### Press the POWER button.

- The number in an illustration corresponds to the number in the text.



**3** Press the **▶** PLAY button.

- Notes are enclosed in a box like this:

#### Note

When the TV has both L/R audio inputs, use the optional VMC310MS/500MS cable for connection.

Please go through this section before starting the operation of this unit.

### Supplied Accessories

Please check that the following accessories are supplied with your unit.

- External antenna connector (300-ohm to 75-ohm matching transformer)



(1)

- 75-ohm coaxial cable with F-type connectors



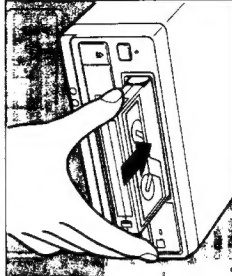
(1)

### Handling Video Cassettes

#### Cassette Insertion

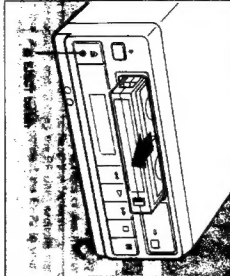
Insert a cassette fully into the unit with the window facing upwards. If the AC power cord is connected to the wall outlet, the power will be automatically turned on.

The cassette indicator and SP/LP mode indicator lights in the display window.



#### Cassette Ejection

Press the **EJECT** button to eject the cassette. If the AC power cord is connected to the wall outlet, the cassette can be ejected even when the power of the unit is turned off.



#### Notes on Handling the cassette

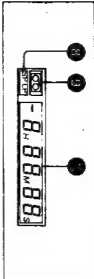
- Do not insert anything other than a cassette into the cassette compartment.
- Avoid using and storing the cassette in the following locations: near heat, humidity, dust, vibration, and strong magnetic fields.
- Store cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
- When the cassette will not be used for a long period of time, periodically rewind and advance the tape at a high speed, once or twice a year.
- Do not insert anything in the small holes on the rear of the cassette.

## Front Panel

- **POWER ON/OFF switch and indicator**  
Press to turn on the power of the unit. The indicator lights when the power is supplied.
- **Cassette compartment**  
Insert an 8 mm format video cassette tape.
- **EDIT button and indicator**  
Press to light the indicator and activate the EDIT mode. The indicator lights when the EDIT mode can be obtained during editing by activating this mode. Normally keep the indicator turned off.
- **EJECT button**  
Press to unload the cassette.
- **COUNTER RESET button**
- **TAPE RETURN button**
- **Tape transport button and indicators**
  - ▶▶▶ REW (rewind)
  - ▶▶▶ PLAY
  - ▶▶▶ FF (fast forward)
  - ▶▶▶ STOP
  - || PAUSE/STILL

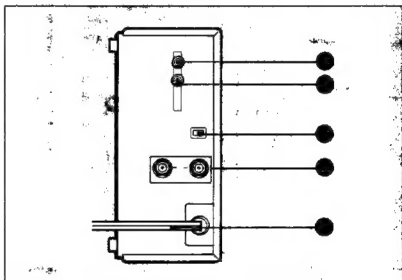
## Display Window

- **SP (standard play)/P (long play) playback mode indicator**
- **Cassette indicator**
- **Tape counter**

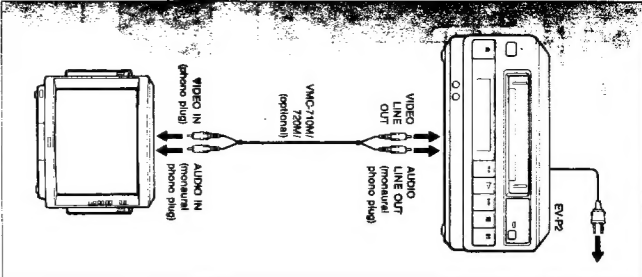


## Rear Panel

- **LINE OUT AUDIO jack (phono type)**
- **LINE OUT VIDEO jack (phono type)**
- **RF UNIT selector**  
Set to 3CH or 4CH which is not assigned for a TV channel in your area referring to the "Setting the RF Unit" section.
- **VHS/Hi8/Hi8OUT connectors (F type)**
- **AC power cord**

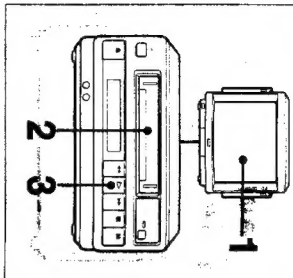


### Connection (1) — To a TV with Video and Audio Inputs



**Note**  
When the TV has both L/R audio inputs, use the optional VMC-910MS/920MS cable for connection.

### Operation



**1** Turn on the TV and set the input selector to "VTR".

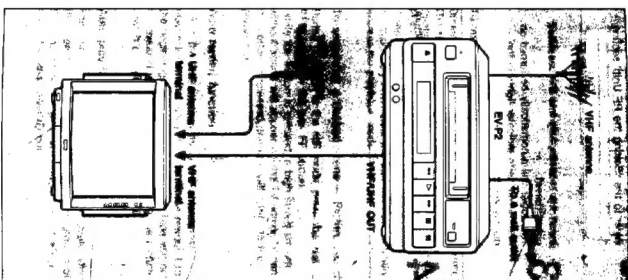
**2** Insert the cassette tape into the cassette deck. The power will automatically be turned on and the cassette indicator lights in the display window.

**3** Press the **▶ PLAY** button. The lamp will light, and the playback picture will appear on the TV screen. To stop playback, press the **■ STOP** button. To rewind the tape, press the **◀ REWIND** button. To advance the tape in high speed, press the **▶▶ FF** button. To remove the cassette, press the **⏏ EJECT** button.

### Connection (2) — To a TV without Video and Audio Inputs

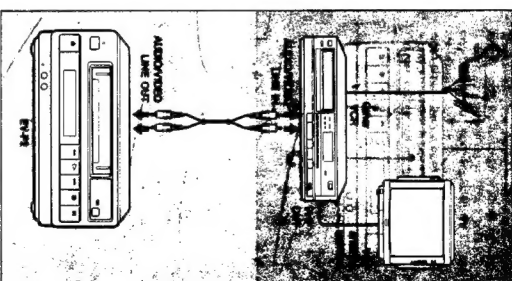
#### Basic Connection

The types of TV and antenna you have will determine how the antenna is to be connected. See the "Antenna" section first and make the correct connections.

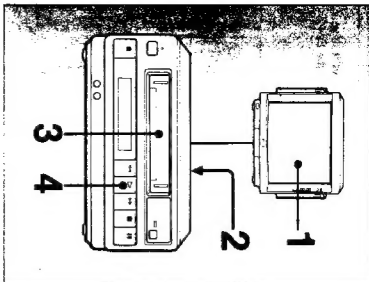


#### System Connection

If you have already connected another VCR to your TV using the antenna terminal, connect the EV/P2 to your system as follows:



**Note**  
Make sure to turn on the other VCR and set the input selector to LINE IN to watch the playback picture of the EV/P2.



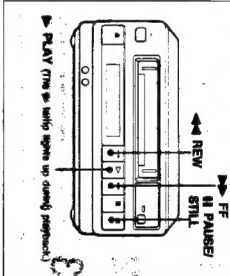
**1** Turn on the TV.

**2** Set the RF UNIT selector to either channel 3 or 4, whichever is not active in your area. Refer to the "Setting the RF Unit" section.

**3** Insert the cassette fully into the cassette compartment. The power will automatically be turned on and the cassette indicator lights in the display window.

**4** Press the **▶ PLAY** button. The **▶** lamp lights, and the playback picture will appear on the TV screen.

#### Various Functions



#### To view a still picture

During playback, press the **II PAUSE/STILL** button. The **II** lamp lights and a still picture will be displayed. To resume normal playback, press the **▶ PLAY** button or the **II PAUSE/STILL** button again. When the pause mode is held for more than approximately 7 minutes, the unit will automatically reenter the playback mode.

#### To search for a desired scene — Picture search

During playback or the still mode, press the **◀◀ REW** button or the **▶▶ FF** button. When the button is pressed, a high speed picture search mode is entered. When the button is released, the unit will return to the previous mode.

#### Auto rewind function

When the tape reaches the end in the normal playback mode, the unit automatically returns to the beginning and stops. However, the tape will not be rewound when it reaches the end in the picture search or fast forward mode.

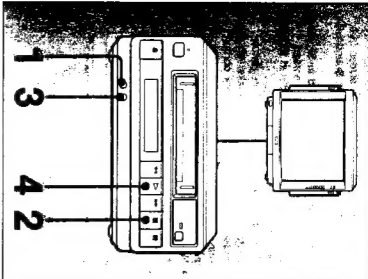
#### Auto play function

The unit can be set to playback automatically when the tape is completely rewound to the beginning of the tape. Press the **▶ PLAY** button while holding down the **◀◀ REWIND** button.

#### Notes

- Picture and sound during picture search modes: A few streaks will appear on the screen but these are not a failure of the unit. Sound will be muted in the search modes.
- When playing back tapes recorded in SP mode: When the unit will appear on the screen during picture search mode compared to tapes recorded in LP mode.
- When viewing the picture in still or picture search mode, the picture may shake vertically or the color in the white and black portion may be reversed, depending upon the TV you are using.
- When playing back a blank tape: A gray screen will appear on the TV screen. The tape counter will not function.

## To Recall the Scene Selected During Playback



**1** During playback, press the **COUNTER RESET** button at your desired scene. The tape counter will display "00:00:00" (counter 0 point).

**2** Press the **STOP** button after playback is completed.

**3** Press the **TAPE RETURN** button. At this point, the tape counter must display more than 1 minute. Otherwise this function will not operate. The unit will start searching for the counter 0 point.

**4** Press the **PLAY** button during the search mode. Playback starts from the scene selected in STEP 1.

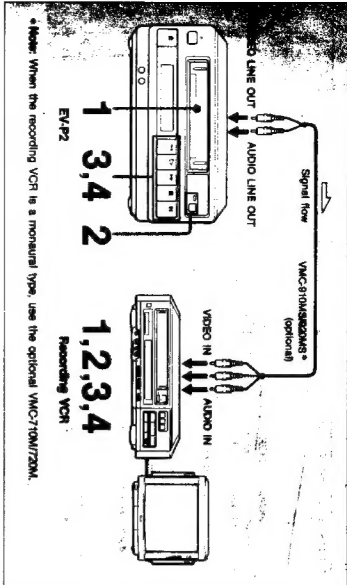
If the **PLAY** button is not pressed, the unit will stop at the counter 0 point.

**Accuracy of the tape counter**  
As the linear time counter equipped on the unit is not a clock counter, a certain amount of difference may occur between the time counter display and the actual playback time.



### To Edit a Tape by Connecting a Recorder

— Playing back with the EV/P2 and recording with another VCR



#### EV/P2

1 Insert a source tape.  
The power will automatically be turned on.

Recording VCR  
Turn on the power of the unit and insert a cassette for recording.

2 Press the EDIT button and light the indicator.

Activate the EDIT mode if the unit has this function.

3 Search for the playback start point and enter the playback pause mode.

Search for the recording start point and enter the recording pause mode.

4 Press the PAUSE/STILL button on both of the units simultaneously.

Press the PAUSE/STILL button on the EV/P2 a little before the recording VCR.

When editing is completed  
Press the STOP button on both of the units.

**Note on the use of the EDIT button**  
Even when using the EDIT mode during editing, the quality of the edited tape will have a certain extent of degradation in picture and sound. Please do not use the edited tape for multiple generations of editing.

**Caution**  
Television programs, films, video tapes and other materials may be copyrighted. Unauthorized duplication of such material may be contrary to the provisions of the copyright laws.

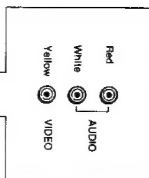
## Antenna Connections

In order to view the playback picture on the TV screen, the EV/P2 and the TV must be connected properly. The proper connection between the two units varies depending upon the type of TV receiver and the antenna to be used.

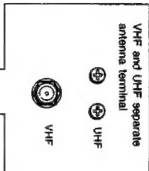
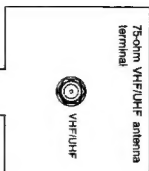
If your TV is not equipped with video and audio input jacks, the antenna terminals of the TV must be made using the antenna. Before operating the unit, go through this section to make the correct connections.

## First Check Your TV

If your TV has video and audio input jacks



If your TV does not have video and audio input jacks  
Check the antenna terminals on your TV.



Slide the antenna  
Connect the EV/P2 and the TV using the video and audio input jacks as described on page 10.

Go through "Connecting External High Level of 30 to 300 ohm the type of antenna and the TV with antenna terminals that match yours."

Before you begin...

- Turn off the power to the player and the TV.
- Disconnect the AC power cord of the player and the TV from the wall outlet.
- Disconnect the AC power cords until all of the connections are completed.

## Note

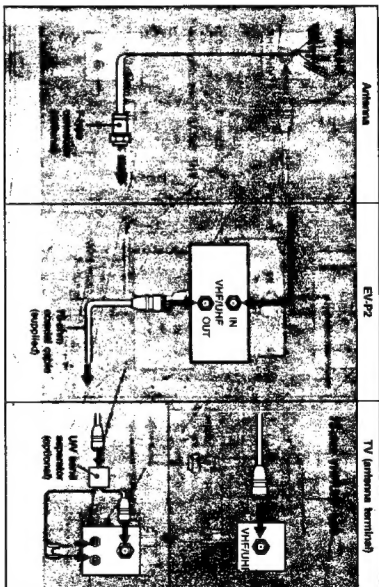
If your TV does not belong to any of the types above, please consult your Sony dealer.

## Caution

Connections between the player VHF/UHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in these instructions. Failure to do so may result in operation that violates the regulation of the Federal Communications Commission regarding the use of radio waves. Please refer to the manual of the player to an antenna or make simultaneous parallel antenna and player connections at the antenna terminals of your receiver.

## Example of Connections

1 To connect a combination VHF/UHF antenna.

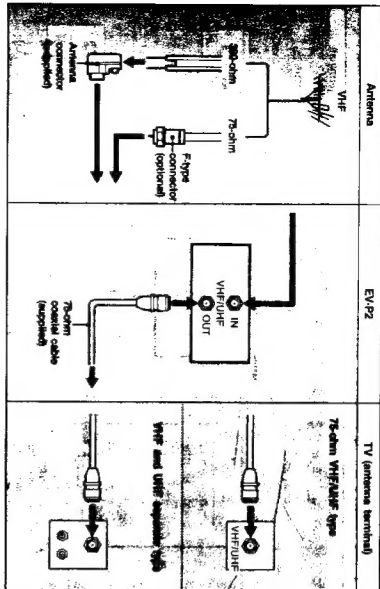


## Notes

- Most combination antenna are equipped with a UV band separator (signal splitter). Remove this separator from the antenna cable.
- Use an optional PFC-8 extension cable, 8 m (25 ft) long, if the supplied 75-ohm coaxial cable is not long enough.
- To select an F-type connector to the cable, see page 24.

## Antenna Connections

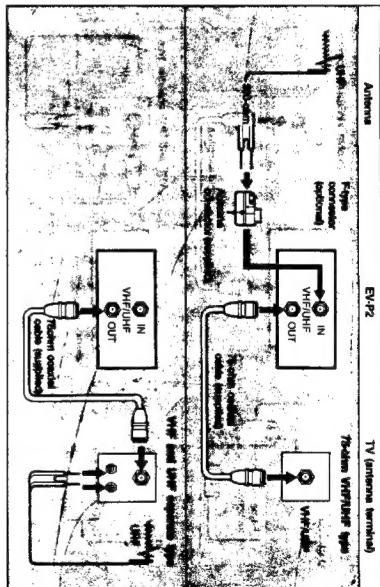
## 2 To connect a VHF antenna only



**Note**  
• To attach the F-type connector to the antenna cable, see page 24.

• To attach the supplied antenna connector to the antenna cable, see page 24.

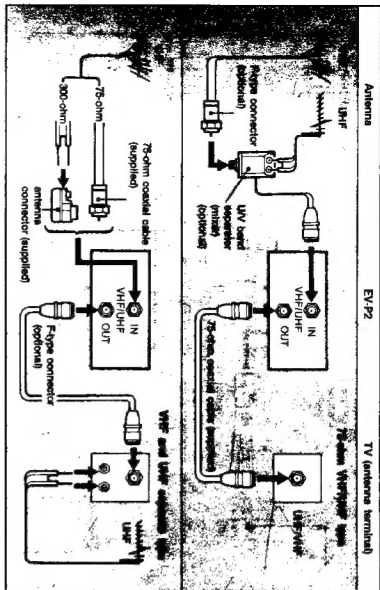
## 3 To connect an UHF antenna only



**Note**  
To attach the supplied antenna connector to the antenna cable, see page 24.

## Antenna Connections

### 4 To connect both the VHF and UHF antennas

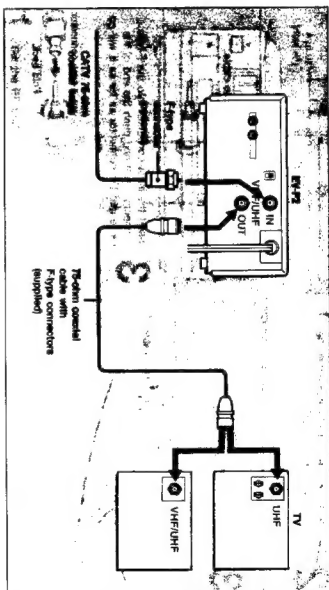


**Note**

- To attach the supplied antenna connector to the antenna cable, see page 24.
- To attach an F-type connector to the antenna cable, see page 24.

### CATV cable connections

Although an example of a connection is given below, we recommend that you consult your cable company to make sure that the cable is properly connected.



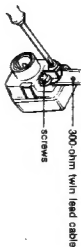
## Antenna Connections

### Attaching an external antenna connector

- 1 Loosen the screws on the antenna connector.

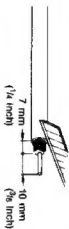
- 2 Fit the 300-ohm twin lead cable under the screws on antenna connector.

- 3 Tighten the screws again.



### Attaching an F-type connector

- 1 Strip 1/4 inch from the end of the cable so 3/8 inch of the center conductor is exposed.



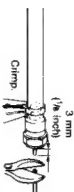
- 2 Slip the crimping ring over the cable.



- 3 Insert the line conductor into the F-type connector. Bend and push the end of the cable into the connector as far as it will go.



- 4 Slide the crimping ring over this assembly. Then pinch the crimping ring with pliers to hold the connection in place.



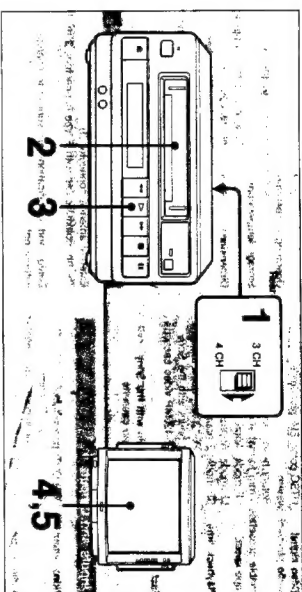
- 5 Insert the F-type connector into the VHF/UHF IN on the player.



## Setting the RF Unit

To get the proper RF signal, set the RF UNIT selector switch on the rear panel of the EV/P2.

If channel 4 is active in your area, set the switch to channel 3, and vice versa.



- 1 Set the RF UNIT located at the rear to 3 CH or 4 CH, whichever is not active in your area.

- 2 Insert a recorded cassette.

- 3 Press ► PLAY.

- 4 Turn on the TV.

- 5 Set the TV receiver to either VHF channel 3 or 4 to agree with the RF UNIT setting you made in step 1. If the picture is not clear, fine-tune the channel on the TV.

For details about the TV channel adjustment, see the instruction of the TV receiver.

## Specifications

System	General
<b>Video playback system</b> Relay two-head helical scanning FM color under system NTSC color, EIA standards	<b>Power requirements</b> AC 120 V $\pm$ 10%, 60 Hz
<b>Audio playback system</b> Sony head, FM system Stereo, 14.4 kHz reproduction	<b>Power consumption</b> 16 W
<b>Ultralinear cassette</b> SP mode: Approx. 14.3 min/sec. LP mode: Approx. 7.2 min/sec. SP mode: 2 hours with the Sony Fe-12AMF video cassette LP mode: 4 hours with the Sony Fe-12AMF video cassette	<b>Operating temperature</b> 5°C to 40°C (41°F to 104°F)
<b>Tape speed</b> SP mode: Approx. 14.3 min/sec. LP mode: Approx. 7.2 min/sec. SP mode: 2 hours with the Sony Fe-12AMF video cassette LP mode: 4 hours with the Sony Fe-12AMF video cassette	<b>Storage temperature</b> 20°C to +60°C (4°F to +140°F)
<b>Playback time</b> SP mode: Approx. 14.3 min/sec. LP mode: Approx. 7.2 min/sec. SP mode: 2 hours with the Sony Fe-12AMF video cassette LP mode: 4 hours with the Sony Fe-12AMF video cassette	<b>Dimensions</b> Approx. 178 x 88 x 255 mm (7 1/8 x 3 1/2 x 10 1/8 inches) (W/H/D)
<b>Fast forward/reverse time</b> Approx. 4 min with the Sony Fe-90MF video cassette	<b>Weight</b> Approx. 2.4 kg (5 lb to 5 oz)
Inputs and Outputs	Supplied Accessories
<b>Video output</b> VIDEO OUT: phono jack unbalanced, sync negative	External antenna connector (1) 75-ohm coaxial cable with F-type connectors, 2 m (1) Dolby and specifications are subject to change without notice.
<b>Audio output</b> AUDIO OUT: phono jack -7.5 dBs	
<b>VHF/UHF input</b> F-type connector, 75 ohms, unbalanced	
<b>VHF/UHF output</b> F-type connector, 75 ohms, unbalanced, VHF channel 3 or 4 selectable	

## Troubleshooting

<b>POWER</b> cannot be turned on. Poor picture quality.	<ul style="list-style-type: none"> <li>Power cord is not connected.</li> <li>The video channel on the TV receiver is not correctly adjusted.</li> <li>The RF unit selector is not set to the proper channel.</li> <li>The video heads may be contaminated. Clean the heads using the Sony VR-25CL video head cleaning cassette. For details on cleaning, head to the instructions provided with the cassette. If the VR-25CL video head cleaning cassette is not available in your area, have the heads cleaned at the nearest Sony service facility.</li> </ul>
Playback cannot be performed even when the <b>PLAY</b> button is pressed.	The tape is at its end.
The tape stops during fast forward or rewind mode.	Search using the <b>TAPE RETURN</b> button is activated.
Search using the <b>TAPE RETURN</b> button cannot be performed.	The <b>TAPE RETURN</b> button was pressed before the tape counter display was more than 1 minute.